#2

OIPE

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/09/899,645 TIME: 10:45:47

Input Set : A:\5718-114.app
Output Set: N:\CRF3\07242001\I899645.raw

ENTERED

```
      3 <110> APPLICANT: Li, Chun Ping
      4       Zheng, Peizhong
      5       Nichols, Scott
      7 <120> TITLE OF INVENTION: METHODS FOR REGULATING BETA-OXIDATION IN PLANTS
      9 <130> FILE REFERENCE: 35718/235742
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/899,645
C--> 12 <141> CURRENT FILING DATE: 2001-07-05
     14 <150> PRIOR APPLICATION NUMBER: 60/216,211
     15 <151> PRIOR FILING DATE: 2000-07-06
     17 <160> NUMBER OF SEQ ID NOS: 2
     19 <170> SOFTWARE: PatentIn Ver. 2.1
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 1169
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Zea mays
     26 <220> FEATURE:
     27 <221> NAME/KEY: CDS
     28 <222> LOCATION: (89)..(814)
     30 <400> SEQUENCE: 1
     31 gagctccacc gcggtggcgg ccgctctaga actagtggat cccccgggct gcaggaattc 60
     33 ggcacgagag actgttgatt gtctaaaa atg gtg cat agt ttg cat gca att    112
     34                                 Met Val His Ser Leu His Ala Ile
     35                                   1               5
     37 ttt ctt gtt gct gga gac aat aac ata ccg ata ata tat caa gtt cat   160
     38 Phe Leu Val Ala Gly Asp Asn Asn Ile Pro Ile Ile Tyr Gln Val His
     39      10                  15                  20
     41 cgg gca cgt gat gga tcc agc ttt gcc aca aga aaa gtg gag gca aag   208
     42 Arg Ala Arg Asp Gly Ser Ser Phe Ala Thr Arg Lys Val Glu Ala Lys
     43  25                  30                  35                  40
     45 cag aag ggc cta gtt gta ttc acc ttg att gct tct ttc cag aag gaa   256
     46 Gln Lys Gly Leu Val Val Phe Thr Leu Ile Ala Ser Phe Gln Lys Glu
     47                  45                  50                  55
     49 gaa gtg ggt ttt gag cat cag gct gca atc atg cct gat gtt cct ccg   304
     50 Glu Val Gly Phe Glu His Gln Ala Ala Ile Met Pro Asp Val Pro Pro
     51              60                  65                  70
     53 cca gaa cag ctc ctt aat ctg gag gag ata cgt gaa aga cgg ctt act   352
     54 Pro Glu Gln Leu Leu Asn Leu Glu Glu Ile Arg Glu Arg Arg Leu Thr
     55          75                  80                  85
     57 gat cca cgc ttc cca tcc caa tat agg aac ttg gca gct aaa aaa aag   400
     58 Asp Pro Arg Phe Pro Ser Gln Tyr Arg Asn Leu Ala Ala Lys Lys Lys
     59      90                  95                  100
     61 ttt att cct tgg ccc ata gaa atg aga ttt tgt gaa ggt tca gcg tct   448
     62 Phe Ile Pro Trp Pro Ile Glu Met Arg Phe Cys Glu Gly Ser Ala Ser
     63 105                 110                 115                 120
     65 caa cat aaa cca agc tta aac tac tgg ttt aga gct cga ggg aaa ctc   496
     66 Gln His Lys Pro Ser Leu Asn Tyr Trp Phe Arg Ala Arg Gly Lys Leu
     67                 125                 130                 135
```

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/09/899,645 TIME: 10:45:47

Input Set : A:\5718-114.app
Output Set: N:\CRF3\07242001\I899645.raw

```
69 tca gac gac caa gct cta cac aga tgt gtt gta gca tat gct tcg gat   544
70 Ser Asp Asp Gln Ala Leu His Arg Cys Val Val Ala Tyr Ala Ser Asp
71             140                 145                 150
73 cta cta ttt tct ggg gtg agc ctt aac cct cat cgg gag aag ggt ttg   592
74 Leu Leu Phe Ser Gly Val Ser Leu Asn Pro His Arg Glu Lys Gly Leu
75         155                 160                 165
77 aag aca tac tgc ctc agt ctt gac cat tcc atc tgg ttc cac aaa cct   640
78 Lys Thr Tyr Cys Leu Ser Leu Asp His Ser Ile Trp Phe His Lys Pro
79     170                 175                 180
81 gtg aag gct gac gaa tgg atg ctg tat gtg atc gag agc cca tct gcg   688
82 Val Lys Ala Asp Glu Trp Met Leu Tyr Val Ile Glu Ser Pro Ser Ala
83 185                 190                 195                 200
85 cac ggt ggt cgc ggt ttc gtc acc gga cgc atg ttc aac agg caa gga   736
86 His Gly Gly Arg Gly Phe Val Thr Gly Arg Met Phe Asn Arg Gln Gly
87                 205                 210                 215
89 gag ctt atc atg tcg ctg acc caa gag gca ttg att cga agg gag aag   784
90 Glu Leu Ile Met Ser Leu Thr Gln Glu Ala Leu Ile Arg Arg Glu Lys
91             220                 225                 230
93 ccg cga gga cca aat ccg agg ccg aag ctt tgaggcacct gacagcctct     834
94 Pro Arg Gly Pro Asn Pro Arg Pro Lys Leu
95         235                 240
97 gcagtcgact gtagaggatc ccaaccgagc tttgagaggc gcaccatcct ttcttctaat 894
99 ttggtttaga tatttatgaa ttcacaaaca aaaatataga atatcaagca gtataaaaga 954
101 tctcaagtca aacctaacat ttttttttcat ttctccggat gatttctatt tgttttggtg 1014
103 tgtgtgtggt tggaggggta ttggaagcgg aagcggaggc ggagggtttg atactttagg 1074
105 ctatttcctg cagcttactt tcattatacg aacagtatat atacatattt aaacttcaaa 1134
107 aaaaaaaaaa aaaactcgag ggggggcccg gtacc                          1169
110 <210> SEQ ID NO: 2
111 <211> LENGTH: 242
112 <212> TYPE: PRT
113 <213> ORGANISM: Zea mays
115 <400> SEQUENCE: 2
116 Met Val His Ser Leu His Ala Ile Phe Leu Val Ala Gly Asp Asn Asn
117   1               5                  10                  15
119 Ile Pro Ile Ile Tyr Gln Val His Arg Ala Arg Asp Gly Ser Ser Phe
120             20                  25                  30
122 Ala Thr Arg Lys Val Glu Ala Lys Gln Lys Gly Leu Val Val Phe Thr
123         35                  40                  45
125 Leu Ile Ala Ser Phe Gln Lys Glu Glu Val Gly Phe Glu His Gln Ala
126     50                  55                  60
128 Ala Ile Met Pro Asp Val Pro Pro Pro Glu Gln Leu Leu Asn Leu Glu
129 65                  70                  75                  80
131 Glu Ile Arg Glu Arg Arg Leu Thr Asp Pro Arg Phe Pro Ser Gln Tyr
132                 85                  90                  95
134 Arg Asn Leu Ala Ala Lys Lys Lys Phe Ile Pro Trp Pro Ile Glu Met
135             100                 105                 110
137 Arg Phe Cys Glu Gly Ser Ala Ser Gln His Lys Pro Ser Leu Asn Tyr
138         115                 120                 125
140 Trp Phe Arg Ala Arg Gly Lys Leu Ser Asp Asp Gln Ala Leu His Arg
```

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/09/899,645 TIME: 10:45:47

Input Set : A:\5718-114.app
Output Set: N:\CRF3\07242001\I899645.raw

```
141     130                 135                 140
143 Cys Val Val Ala Tyr Ala Ser Asp Leu Leu Phe Ser Gly Val Ser Leu
144 145                 150                 155                 160
146 Asn Pro His Arg Glu Lys Gly Leu Lys Thr Tyr Cys Leu Ser Leu Asp
147                 165                 170                 175
149 His Ser Ile Trp Phe His Lys Pro Val Lys Ala Asp Glu Trp Met Leu
150             180                 185                 190
152 Tyr Val Ile Glu Ser Pro Ser Ala His Gly Gly Arg Gly Phe Val Thr
153         195                 200                 205
155 Gly Arg Met Phe Asn Arg Gln Gly Glu Leu Ile Met Ser Leu Thr Gln
156     210                 215                 220
158 Glu Ala Leu Ile Arg Arg Glu Lys Pro Arg Gly Pro Asn Pro Arg Pro
159 225                 230                 235                 240
161 Lys Leu
```

VERIFICATION SUMMARY DATE: 07/24/2001
PATENT APPLICATION: **US/09/899,645** TIME: 10:45:48

Input Set : **A:\5718-114.app**
Output Set: **N:\CRF3\07242001\I899645.raw**

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date